



N Female to BNC Male Cable Using RG223 Coax

RF Cable Assemblies Technical Data Sheet

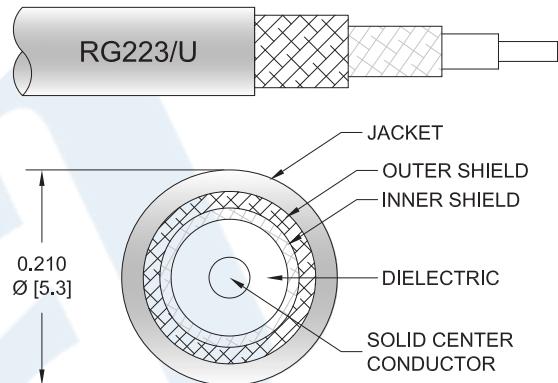
PE3555

Configuration

- Connector 1: N Female
- Connector 2: BNC Male
- Cable Type: RG223

Features

- Max Frequency 4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3555 type N female to BNC male cable using RG223 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to BNC cable assembly has a female to male gender configuration with 50 ohm flexible RG223 coax. The PE3555 type N female to BNC male cable assembly operates to 4 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to BNC Male Cable Using RG223 Coax PE3555](#)



N Female to BNC Male Cable Using RG223 Coax

RF Cable Assemblies Technical Data Sheet

PE3555

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.04	0.061	0.096	0.134	0.291	dB/ft
	0.13	0.2	0.31	0.44	0.95	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.107 lbs [48.53 g]

Cable

Cable Type RG223
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material PVC, Black
 Jacket Diameter 0.21 in [5.33 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to BNC Male Cable Using RG223 Coax PE3555](#)



N Female to BNC Male Cable Using RG223 Coax

RF Cable Assemblies Technical Data Sheet

PE3555

Connectors

Description	Connector 1	Connector 2
Type	N Female	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 μ in. minimum	30 μ in. minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in. minimum	100 μ in. minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 μ in minimum

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to BNC Male Cable Using RG223 Coax PE3555](#)



N Female to BNC Male Cable Using RG223 Coax

RF Cable Assemblies Technical Data Sheet

PE3555

How to Order

Part Number Configuration:

PE3555 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3555-12 = 12 inches long cable
PE3555-100cm = 100 cm long cable

N Female to BNC Male Cable Using RG223 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to BNC Male Cable Using RG223 Coax PE3555](#)

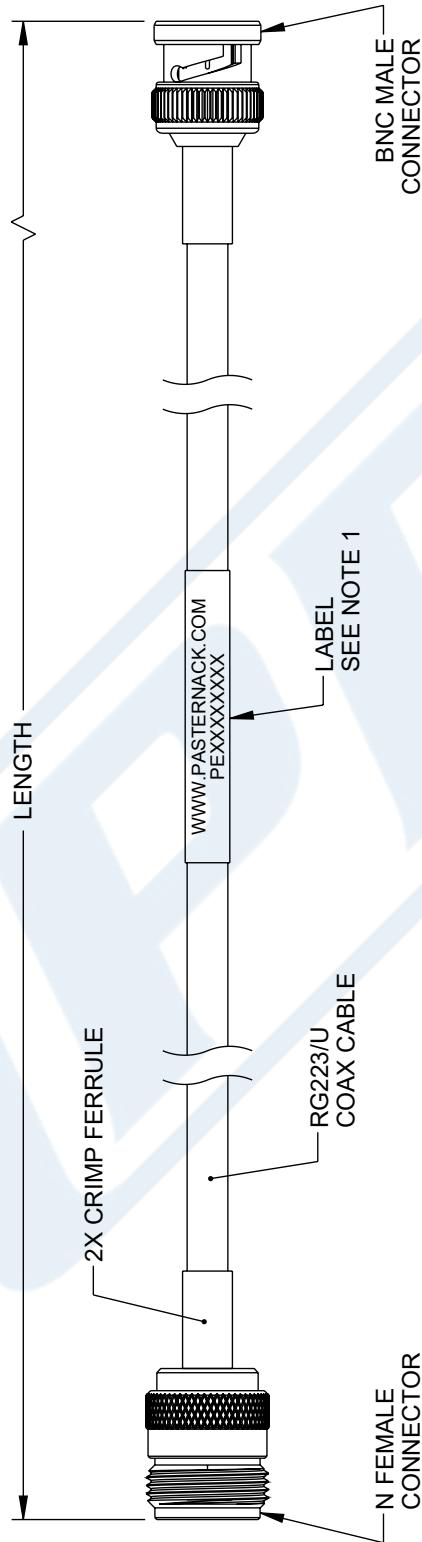
URL: <https://www.pasternack.com/n-female-to-bnc-male-cable-using-rg223-pe3555-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3555 CAD Drawing

N Female to BNC Male Cable Using RG223 Coax

A A INITIAL RELEASE 4/17/2023 KDANG AGANWANI



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY
 - 2.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

INTERPRET ALL DIMENSIONS AND TOLERANCES AS MEASURED

TOLERANCES PER ASME Y 4.5

1 OF 1

111

Using RG223 Coax

INFINITI is a registered trademark of DaimlerChrysler AG.

Website: www.Basternack.com

Website: www.fl-astellack.com
Phone: 1.866.727.8376 | 1.949.261.1

DESCRIPTION

N Female to BNC Male

TOLERANCES: 1.51 | FRACTIONS

FRACTIONS

CABLE LENGTH TOLERANCES: $\pm .005$ [.13] **ANGLES** $\pm 1^\circ$

$$\leq 12 [305] = +1 [25] / -0$$

$>60 [1524] \leq 120 [3048] = +4 [102] / -0$
 $>12 [305] \leq 60 [1524] = +2 [5] / -0$

TABLE AND CHAIR LABELS: LENGTH: 3.0 INCHES OR LOGO, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX

6 INCHES FROM EACH CONNECTOR.

2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE